

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 5

**Complete if Known**

Application Number 10/720 462  
 Filing Date 11/24/2003  
 First Named Inventor Boyd et al.  
 Art Unit 1614  
 Examiner Name Lezah W. Roberts  
 Attorney Docket Number 7052-01-US-OC

**U. S. PATENT DOCUMENTS**

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
/LRF/		US-	919,736	04-01-1909	Loesch	
		US-	1,429,405	09-01-1922	Carter et al.	
		US-	1,605,903	11-01-1926	Schuler	
		US-	1,785,078	12-01-1930	Gibson	
		US-	1,947,124	02-01-1934	Clauss	
		US-	2,062,867	12-01-1936	Cosier	
		US-	2,137,170	11-01-1938	Levey	
		US-	2,353,594	07-01-1944	Seagren	
		US-	2,394,322	02-01-1946	McKee	
		US-	2,526,811	10-01-1950	Dawson	
		US-	2,610,588	09-01-1952	Seagren et al.	
		US-	2,624,277	01-01-1953	Sunkoz	
		US-	2,645,049	07-01-1953	Brown	
		US-	2,791,960	05-01-1957	Pietropinto	
		US-	2,846,314	08-01-1958	Aichele et al.	
		US-	2,895,832	07-01-1959	Bersey	
		US-	3,009,812	11-01-1961	Ganz	
		US-	3,711,604	01-01-1973	Cologney et al.	
/LRF/		US-	3,852,494	12-01-1974	Williamson	

**FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>4</sup>	
		Country Code <sup>3</sup> Number <sup>1</sup> Kind Code <sup>2</sup> (if known)					
		WO 2001/080823	11-01-2001	PCT			
		WO 2003/034979	08-04-2003	PCT			
		WO 2000/018365	04-06-2000	PCT			
		982946	02-03-1976	CA			

Examiner Signature /Lezah Roberts/

Date Considered 04/24/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WFO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WFO Standard ST.16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 5

**Complete if Known**

Application Number	10/720,462
Filing Date	11/24/2003
First Named Inventor	Boyd et al.
Art Unit	1614
Examiner Name	Lezah W. Roberts
Attorney Docket Number	7052-01-US-OC

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/LR/	US	3,934,000	01-01-1976	Barth	
	US	3,951,821	04-20-1976	Davidson	
	US	3,954,961	05-01-1976	Coldney et al.	
	US	3,957,964	05-01-1976	Grimm, III, John Edward	
	US	3,957,968	05-01-1976	Cordon	
	US	4,075,316	02-01-1978	Cordon	
	US	4,285,978	08-01-1981	Quinlivan	
	US	4,597,959	07-01-1986	Barr	
	US	4,642,197	02-10-1987	Kruse et al.	
	US	4,650,685	03-01-1987	Persson et al.	
	US	4,837,008	06-06-1989	Rudy et al.	
	US	4,849,212	07-01-1989	Glandorf et al.	
	US	4,876,092	10-24-1989	Mizobuchi et al.	
	US	4,897,258	01-30-1990	Rudy et al.	
	US	4,956,404	09-01-1990	Pelzig	
	US	4,971,782	11-20-1990	Rudy et al.	
	US	5,017,394	05-01-1991	Macpherson et al.	
	US	5,035,906	07-01-1991	Persson et al.	
/LR/	US	5,047,244	09-10-1991	Sanvordeker et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	/Lezah Roberts/	Date Considered	04/24/2008
-----------------------	-----------------	--------------------	------------

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 909. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* [See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4

of 5

**Complete if Known**

Application Number	10/720,462
Filing Date	11/24/2003
First Named Inventor	Boyd et al.
Art Unit	1614
Examiner Name	Lezah W. Roberts
Attorney Docket Number	7052-01-US-OC

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/LR/	US	6,232,285	05-15-2001	Casteel et al.	
	US	6,251,452	06-01-2001	Weinstein et al.	
	US	6,258,342	07-01-2001	Harcum et al.	
	US	6,258,343	07-10-2001	Hiczek, Sr. et al.	
	US	6,419,903	07-16-2002	Xu et al.	
	US	6,451,754	09-17-2002	Rowland et al.	
	US	6,492,320	12-10-2002	Guo et al.	
	US	6,506,720	01-14-2003	Blasey et al.	
	US	6,541,441	04-01-2003	Mumoli	
	US	6,544,943	04-08-2003	Rizzi et al.	
	US	6,548,473	04-15-2003	Jacques Kamiel Thoen et al.	
	US	6,586,013	07-01-2003	Victor	
	US	6,589,924	07-08-2003	Schmidt et al.	
	US	6,596,298	07-22-2003	Leung et al.	
	US	6,664,225	12-16-2003	Mumoli	
	US	6,669,929	12-30-2003	Boyd et al.	
	US	6,682,756	01-27-2004	Horstmann et al.	
	US	2002/0001569	01-03-2002	Dromard et al.	
/LR/	US	2002/0048553	04-25-2002	Baumgartner	

[illegible]

Examiner Signature	/Lezah Roberts/	Date Considered	04/24/2008
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See "Kind of Documents" on USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

Transiation is attached.

This collection of information is required by 37 CFR 1.57 and 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 422 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on this collection of information should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Registration for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

10/1/2008 10:00 AM 10/1/2008 10:00 AM and select option 2

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**Complete if Known**

(Use as many sheets as necessary)

of 5

Application Number	10/720,462
Filing Date	11/24/2003
First Named Inventor	Boyd et al.
Art Unit	1614
Examiner Name	Lezah W. Roberts
Attorney Docket Number	7052-01-US-OC

[illegible][illegible]

Examiner Signature	/Lezah Roberts/	Date Considered	04/24/2008
-----------------------	-----------------	--------------------	------------

**EXAMINER:** Initial reference considered. whether or not citation is in conformance with 12PEP 009. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or 12PEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \* Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to a life and by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. The burden will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggest any changes to the burden should be sent to the Chief Information Officer: U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22314-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22314-1450.

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.